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Mini Vane Anemometer



Operating Instructions

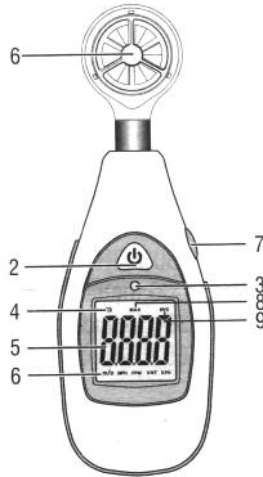
Mini Vane Anemometer

Introduction

The Anemometer instrument measures Air Velocity. Advanced features include Auto Power Off and MAX/AVG reading. Careful use of this meter will provide years of reliable service.

Meter Description

- 1 - Fan
- 2 - Power ON/OFF button
- 3 - Auto backlight
- 4 - Low power display
- 5 - Figure display
- 6 - UNITS display
- 7 - MAX/AVG button
- 8 - MAX display
- 9 - AVG display



Display Layout

- MAX: Max Hold function engaged for the Air Velocity function
- AVG: Air averaging mode
- M/S, FPM, KPH, MPH, KNT: air velocity units of measure
- : Low battery indicator

Power

Press the power button () to turn the power on or off.

Taking measurements

- Hold the probe in the area to be tested.
- Allow adequate time for readings to stabilise.
- Pressing the MAX/AVG button toggles the display between maximum velocity and average velocity.
- Hold down the MAX/AVG button for three seconds, you can enter the air velocity unit conversion mode loop.

Automatic Power Off

To conserve battery life, the meter automatically turns off after 15 minutes.

Battery Replacement

When appears on the LCD, the 9V battery must be replaced.

Battery 1x 9V battery

Battery life 100 hours approx. (if the backlight is used continuously, battery life will be reduced significantly).

Battery current 6.5m A DC approx.

Specifications

Air Velocity	Range	Resolution	Accuracy
M/S (metres per second)	1.1 - 30.00m/s	0.01m/s	±(3% + 0.30m/s)
KPH (kilometres per second)	0.8 - 108.0km/h	0.1km/h	±(3% + 1.0km/h)
FPM (feet per minute)	80 - 5900ft/min	1ft/min	±(3% + 40ft/min)
MPH (miles per hour)	0.9 - 67.0mph	0.1mph	±(3% + 0.4mph)
KNT (nautical MPH)	0.8 - 58.0 knots	0.1 knots	±(3% + 0.4 knots)

Sampling rate 1 reading per second approx.

Sensors Fan

Automatic Power Off Auto shut off after 15 minutes to preserve battery life

Operating temperature 0 to 50°C (32 to 122°F)

Storage temperature -10 to 60°C (14 to 140°F)

Operating Humidity <80%RH

Storage humidity <80%RH

Operating altitude 2000 metres (7000 feet) maximum

Weight 139g including battery and probe

Dimensions 165 x 54 x 34mm

Useful Equations and Conversions

Unit of measure conversion table

	1 M/S	1 FPM	1 KNT	1 KPM	1 MPH
1 M/S	1	196.87	1.944	3.6	2.24
1 FPM	0.00508	1	0.00987	0.01829	0.01138
1 KNT	0.5144	101.27	1	1.8519	1.1523
1 KPM	0.2778	54.69	0.54	1	0.6222
1 MPH	0.4464	87.89	0.8679	1.6071	1